### Assignment -2

Assignment Date	25 NOVEMBER 2022
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Team ID	PNT2022TMID28288
Maximum Marks	2 Marks

#### Question-1:

- 1. Create a Flask App
- 2. Add the Home page, About Page

<title>{% block title %}Home{% endblock %}</title>

- 3. Add the Bootstrap
- 4. Add the Sign in page and App the Signup Page + database connectivity

#### Solution:

## **INDEX.**is

```
***index.js***
function deleteNote(noteId) {
 fetch("/delete-note", {
 method: "POST",
  body: JSON.stringify({ noteId: noteId }),
}).then((_res) => {
 window.location.href = "/";
});
***base.html***
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8"/>
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  k
  rel="stylesheet"
  href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css"
  integrity="sha384-Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
  crossorigin="anonymous"
  />
  k
  rel="stylesheet"
  href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css"
  crossorigin="anonymous"
  />
```

```
</head>
 <body>
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
   <but
    class="navbar-toggler"
    type="button"
    data-toggle="collapse"
    data-target="#navbar"
    <span class="navbar-toggler-icon"></span>
   </button>
   <div class="collapse navbar-collapse" id="navbar">
    <div class="navbar-nav">
     {% if user.is_authenticated %}
     <a class="nav-item nav-link" id="home" href="/">Home</a>
     <a class="nav-item nav-link" id="logout" href="/logout">Logout</a>
     {% else %}
     <a class="nav-item nav-link" id="login" href="/login">Login</a>
     <a class="nav-item nav-link" id="signUp" href="/sign-up">Sign Up</a>
     {% endif %}
    </div>
   </div>
  </nav>
  {% with messages = get_flashed_messages(with_categories=true) %} {% if
  messages %} {% for category, message in messages %} {% if category ==
  'error' %}
  <div class="alert alert-danger alter-dismissable fade show" role="alert">
   {{ message }}
   <button type="button" class="close" data-dismiss="alert">
    <span aria-hidden="true">&times;</span>
   </button>
  </div>
  {% else %}
  <div class="alert alert-success alter-dismissable fade show" role="alert">
   {{ message }}
   <button type="button" class="close" data-dismiss="alert">
    <span aria-hidden="true">&times;</span>
   </button>
  </div>
  {% endif %} {% endfor %} {% endif %} {% endwith %}
  <div class="container">{% block content %} {% endblock %}</div>
  <script
   src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
   integrity="sha384-
KJ3o2DKtlkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
   crossorigin="anonymous"
  ></script>
  <script
   src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"
   integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
   crossorigin="anonymous"
  ></script>
  <script
   src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
```

```
integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"
  crossorigin="anonymous"
 ></script>
 <script
  type="text/javascript"
  src="{{ url_for('static', filename='index.js') }}"
 ></script>
 </body>
</html>
***home.hml***
{% extends "base.html" %} {% block title %}Home{% endblock %} {% block content
%}
<h1 align="center">Notes</h1>
{% for note in user.notes %}
{{ note.data }}
 <button type="button" class="close" onClick="deleteNote({{ note.id }})">
  <span aria-hidden="true">&times;</span>
 </button>
 {% endfor %}
<form method="POST">
<textarea name="note" id="note" class="form-control"></textarea>
<br />
<div align="center">
 <button type="submit" class="btn btn-primary">Add Note</button>
</div>
</form>
{% endblock %}
***login.html***
{% extends "base.html" %} {% block title %}Login{% endblock %} {% block content
%}
<form method="POST">
<h3 align="center">Login</h3>
 <div class="form-group">
 <label for="email">Email Address</label>
 <input
  type="email"
  class="form-control"
  id="email"
  name="email"
  placeholder="Enter email"
 />
 </div>
 <div class="form-group">
 <label for="password">Password</label>
 <input
  type="password"
```

class="form-control"

```
id="password"
   name="password"
  placeholder="Enter password"
 />
 </div>
<br />
<button type="submit" class="btn btn-primary">Login</button>
</form>
{% endblock %}
***sign_up.html***
{% extends "base.html" %} {% block title %}Sign Up{% endblock %} {% block
content %}
<form method="POST">
<h3 align="center">Sign Up</h3>
 <div class="form-group">
  <label for="email">Email Address</label>
  <input
   type="email"
   class="form-control"
  id="email"
  name="email"
  placeholder="Enter email"
  />
 </div>
 <div class="form-group">
  <label for="firstName">First Name</label>
  <input
  type="text"
   class="form-control"
  id="firstName"
  name="firstName"
  placeholder="Enter first name"
 />
 </div>
 <div class="form-group">
  <label for="password1">Password</label>
  <input
  type="password"
  class="form-control"
  id="password1"
  name="password1"
  placeholder="Enter password"
  />
 </div>
 <div class="form-group">
  <label for="password2">Password (Confirm)</label>
  <input
  type="password"
  class="form-control"
  id="password2"
  name="password2"
  placeholder="Confirm password"
  />
 </div>
```

```
<br />
<button type="submit" class="btn btn-primary">Submit</button>
</form>
{% endblock %}
***_init_.py***
from flask import Flask
from flask_sqlalchemy import SQLAlchemy
from os import path
from flask_login import LoginManager
db = SQLAlchemy()
DB_NAME = "database.db"
def create_app():
  app = Flask(__name___)
  app.config['SECRET_KEY'] = 'hjshjhdjah kjshkjdhjs'
  app.config['SQLALCHEMY DATABASE URI'] = f'sqlite:///{DB NAME}'
  db.init_app(app)
  from .views import views
  from .auth import auth
  app.register_blueprint(views, url_prefix='/')
  app.register_blueprint(auth, url_prefix='/')
  from .models import User, Note
  create_database(app)
  login_manager = LoginManager()
  login_manager.login_view = 'auth.login'
  login_manager.init_app(app)
  @login_manager.user_loader
  def load_user(id):
    return User.query.get(int(id))
  return app
def create_database(app):
  if not path.exists('website/' + DB_NAME):
    db.create all(app=app)
    print('Created Database!')
***auth.py***
from flask import Blueprint, render_template, request, flash, redirect, url_for
from .models import User
from werkzeug.security import generate_password_hash, check_password_hash
from . import db
```

```
from flask login import login user, login required, logout user, current user
auth = Blueprint('auth', __name__)
@auth.route('/login', methods=['GET', 'POST'])
def login():
  if request.method == 'POST':
    email = request.form.get('email')
    password = request.form.get('password')
    user = User.query.filter by(email=email).first()
    if user:
      if check password hash(user.password, password):
        flash('Logged in successfully!', category='success')
        login user(user, remember=True)
        return redirect(url for('views.home'))
      else:
        flash('Incorrect password, try again.', category='error')
    else:
      flash('Email does not exist.', category='error')
  return render_template("login.html", user=current_user)
@auth.route('/logout')
@login_required
def logout():
  logout user()
  return redirect(url for('auth.login'))
@auth.route('/sign-up', methods=['GET', 'POST'])
def sign_up():
  if request.method == 'POST':
    email = request.form.get('email')
    first_name = request.form.get('firstName')
    password1 = request.form.get('password1')
    password2 = request.form.get('password2')
    user = User.query.filter_by(email=email).first()
    if user:
      flash('Email already exists.', category='error')
    elif len(email) < 4:
      flash('Email must be greater than 3 characters.', category='error')
    elif len(first_name) < 2:
      flash('First name must be greater than 1 character.', category='error')
    elif password1 != password2:
      flash('Passwords don\'t match.', category='error')
    elif len(password1) < 7:
      flash('Password must be at least 7 characters.', category='error')
      new_user = User(email=email, first_name=first_name, password=generate_password_hash(
         password1, method='sha256'))
      db.session.add(new user)
```

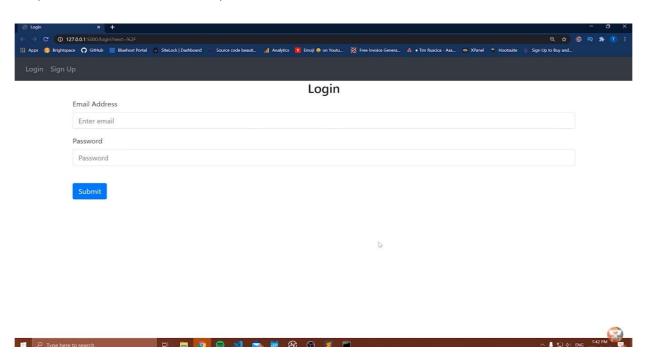
```
db.session.commit()
      login_user(new_user, remember=True)
      flash('Account created!', category='success')
      return redirect(url_for('views.home'))
  return render_template("sign_up.html", user=current_user)
***models.py***
afrom . import db
from flask_login import UserMixin
from sqlalchemy.sql import func
class Note(db.Model):
  id = db.Column(db.Integer, primary_key=True)
  data = db.Column(db.String(10000))
  date = db.Column(db.DateTime(timezone=True), default=func.now())
  user_id = db.Column(db.Integer, db.ForeignKey('user.id'))
class User(db.Model, UserMixin):
  id = db.Column(db.Integer, primary_key=True)
  email = db.Column(db.String(150), unique=True)
  password = db.Column(db.String(150))
  first_name = db.Column(db.String(150))
  notes = db.relationship('Note')
***views.py***
from flask import Blueprint, render_template, request, flash, jsonify
from flask login import login required, current user
from .models import Note
from . import db
import json
views = Blueprint('views', name )
@views.route('/', methods=['GET', 'POST'])
@login required
def home():
  if request.method == 'POST':
    note = request.form.get('note')
    if len(note) < 1:
      flash('Note is too short!', category='error')
      new_note = Note(data=note, user_id=current_user.id)
      db.session.add(new note)
      db.session.commit()
      flash('Note added!', category='success')
  return render_template("home.html", user=current_user)
```

```
@views.route('/delete-note', methods=['POST'])
def delete_note():
    note = json.loads(request.data)
    noteId = note['noteId']
    note = Note.query.get(noteId)
    if note:
        if note.user_id == current_user.id:
            db.session.delete(note)
            db.session.commit()

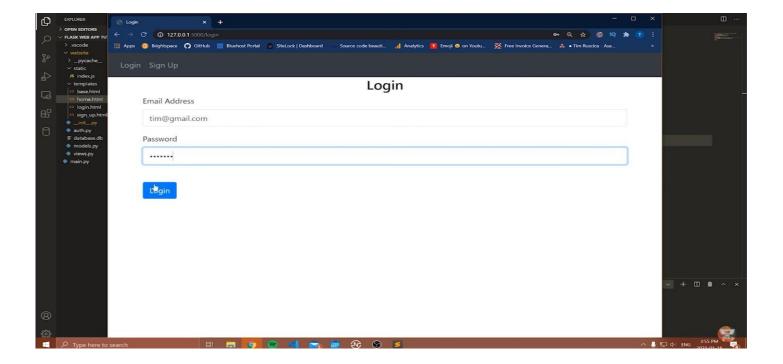
return jsonify({})
```

# **OUTPUT SCREENSHOTS**

**Step 1:** enter our email address and password



STEP 2: After enter that click "Login"



After that website redirect you to notes:

